# Introduction



This handbook explains how to install, connect, operate and maintain your SeaTalk<sup>2</sup> Keyboard (E55061). This keyboard is also supplied with the Remote Station Kit (T82005) - details of how to integrate these devices is given on Page 6.

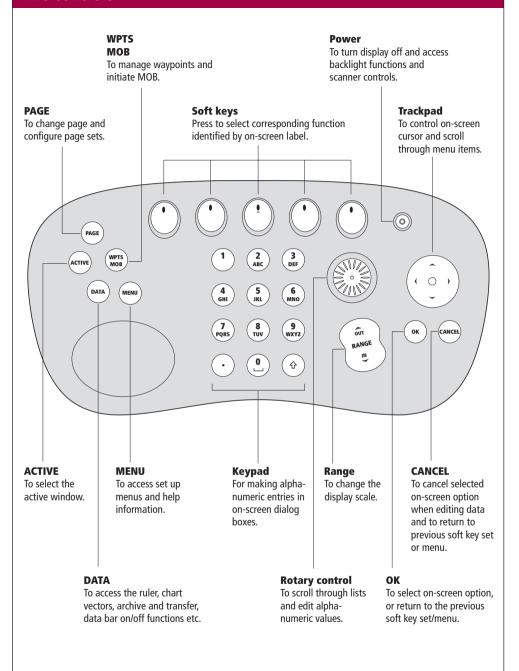
#### **Intended use**

This keyboard is intended for use with Raymarine's E-Series display aboard leisure marine boats and workboats not covered by IMO/SOLAS carriage requirements. It can be integrated into an existing SeaTalk<sup>2</sup> system, if required.

## **Contents**

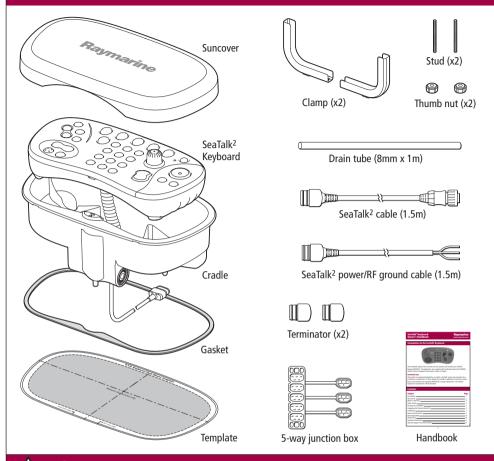
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## The controls



For further details of the control functions, please refer to your E-Series Display Reference Manual.

## Whats in the box?....



# Safety notices

### **WARNING: Navigation aid**

Although this product has been designed to be accurate and reliable, many factors can affect its performance. As a result, it should only be used as an aid to navigation and should never replace common sense and navigational judgement. Always maintain a permanent watch so you can respond to situations as they develop.

#### **WARNING: Cable**

Do not disconnect the keyboard cable from the keyboard.

#### **WARNING: Product installation**

This equipment must be installed and operated in accordance with the instructions contained in this handbook. Failure to do so could result in poor product performance, personal injury and/or damage to your boat.

#### **WARNING: Electrical safety**

Make sure the power supply is switched off before you make any electrical connections.

# Planning the installation

## Where can the SeaTalk<sup>2</sup> Keyboard be mounted?

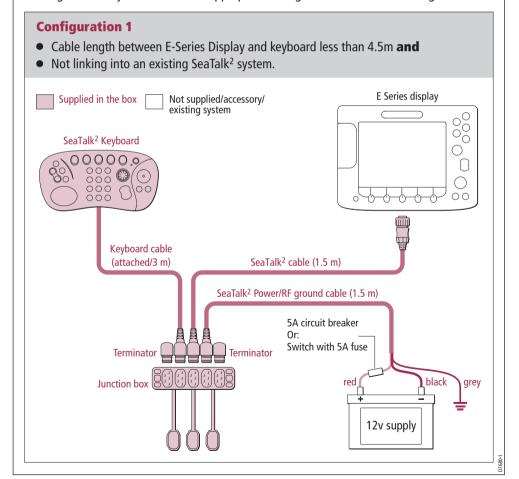
The Seatalk<sup>2</sup> keyboard can be flush or trunnion mounted either indoors or outdoors. It is waterproof to CFR-46 standard.

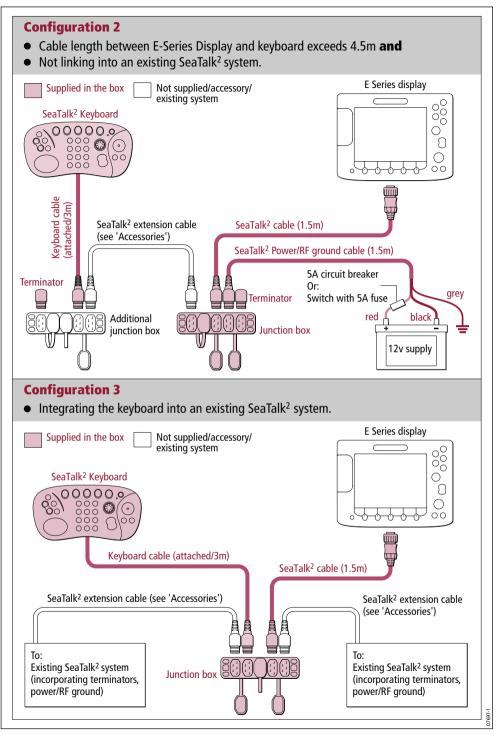
### **Important:**

The drain tube is not required if the keyboard is mounted indoors or in an area protected from rain and/or sea spray. If mounting the keyboard outdoors or in an unprotected area the drain tube will need to run to a suitable exit point below the level of the keyboard.

## What configuration should I use?

How you connect the keyboard depends on the distances between your E-Series Display, the keyboard and power source and whether or not you are connecting the keyboard to an existing SeaTalk<sup>2</sup> system. Select the appropriate configuration from the following:





## **Integrating the Remote Station Kit** Station 1 M1500 monitor Other SeaTalk No other SeaTalk devices connected devices connected Alarm Alarm **o** o° SeaTalk<sup>2</sup> Keyboard 000 12v supply Red eLeL Drain VGA out cable, waterproof VGA out cable, 5m NOT waterproof (see Accessories) Yellow Black OR Drain Other SeaTalk Yellow devices OR Station 2 E Series SeaTalk/Alarm out cable, 1.5m @ (EEEE) Refer to 'Planning the Installation', diagrams on SeaTalk<sup>2</sup> cable (1.5 m) pages 4 and 5. Junction box Keyboard cable (attached/3 m) Remote Station Kit Not supplied/accessory/existing system

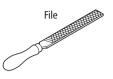
## Installation

**Note:** Before installing the keyboard, please read 'Planning the installation' on Pages 4 & 5.

## What tools do I need to install the keyboard?







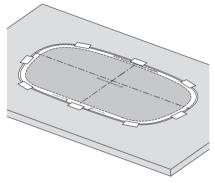




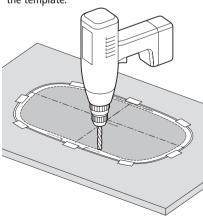


# How do I install the keyboard?

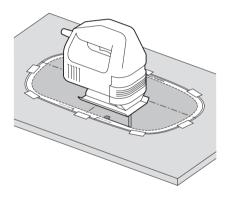
 Using self-adhesive or masking tape, fix the template in the required position.
Note: Ensure that there are no cables or other parts that will be damaged, when the panel is drilled and sawn.



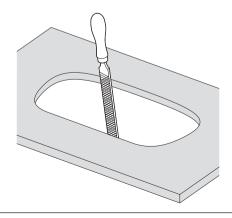
**2.** Drill a pilot hole inside the shaded area of the template.



**3.** Saw around the shaded area of the template.

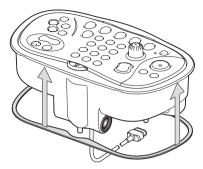


**4.** Remove the tape and the template remains. Smooth the sawn edges with a file.



## **Installation** - continued

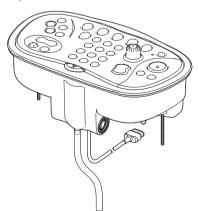
**5.** Peel the backing from the gasket and stick it to the underside of the cradle.



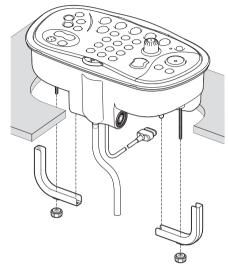
**6.** Finger tighten the studs into position.



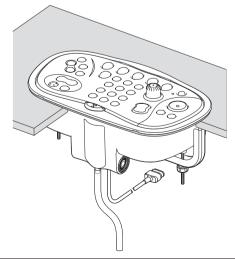
7. If mounting the keyboard in an area unprotected from rain and/or sea spray, fit the drain tube and ensure that it runs to a suitable exit point below the level of the keyboard and the studs.



**8.** Fit the keyboard assembly into its housing. With the dimples in the clamps fitting into the nipples on the cradle, fit and secure the clamps in place using the thumb nuts.



Ensuring that the power is connected last, connect all the cables, terminators etc in the appropriate configuration (see 'Planning the Installation' on pages 4 to 6). Wrap any excess cable and tuck away.
Do not cut and resplice cables.



# **Accessories and spares**

# What accessories are available? ...

Description	Part no.
SeaTalk <sup>2</sup> power/RF ground cable (1.5m)	E55070
Auxiliary alarm	E26033
M1500 monitor kit (includes 5m VGA Out cable)	E02009
Terminator	E25048
Junction box	E25049
SeaTalk <sup>2</sup> extension cables:	
1 metre	E25040
3 metres	E25042
5 metres	E25043
10 metres	E25038
20 metres	E25044
E-Series SeaTalk <sup>2</sup> cable (1.5m)	E55053
VGA Out cables (waterproof):	
10 metres	E55055
20 metres	E55056
Trunnion mount kit	E05012

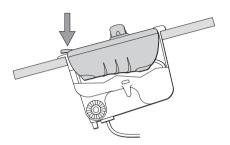
# What spares are available? ...

Description	Part no.
Cradle assembly (includes cradle, cable, drain tube, gasket and latch)	R58213
Flush mount kit (includes gasket, clamps, drain tube, studs and thumb nuts)	R58211
Latch	R89043
Suncover	R58212

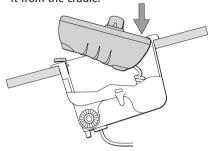
# **Removing/refitting**

## How do I remove the keyboard? ...

- **1.** Switch off the power.
- 2. Slide and hold the latch.

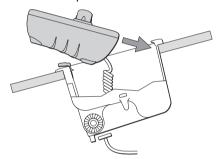


**3.** Push down at the top of the keyboard to raise it from the cradle and lift the it from the cradle.

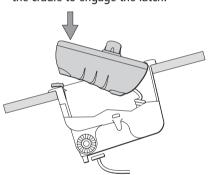


# How do I refit the keyboard? ...

**1.** Position the top edge of the keyboard under the lip of the cradle.



**2.** Push the bottom of the keyboard into the cradle to engage the latch.



### **Maintenance**

## What routine checks and servicing can I do? ...

On a regular basis, examine all cables for signs of damage, such as chafing, cuts or nicks and check that all cables are securely connected.

The SeaTalk<sup>2</sup> keyboard has no user serviceable parts.

# How should I clean my keyboard? ...

Regularly clean your keyboard as follows:

- **1.** Switch off the power.
- **2.** Wipe the keyboard with a clean, soft cloth. To remove oily finger marks, use a spray cleaning agent of the type used for cleaning eyeglasses or a mild detergent. Do not use acid, ammonia based or abrasive products.

# **Important information**

#### **EMC conformance**

All Raymarine equipment and accessories are designed to the best industry standards for use in the recreational marine environment. The design and manufacture of Raymarine equipment and accessories conforms to the appropriate Electromagnetic Compatibility (EMC) standards, but correct installation is required to ensure that performance is not compromised. For full details and installation guidelines refer to our web site at **www.raymarine.com** 

## **Warranty**

To register your new Raymarine product, please take a few minutes to fill out the warranty card. It is important that you complete the owner information and return the card to us to receive full warranty benefits.

Your product can also be registered via our web site - **www.raymarine.com** 

#### **Handbook information**

To the best of our knowledge, the information contained in this handbook was correct as it went to press. Raymarine cannot accept any liability for any inaccuracies or omissions it may contain. In addition, our policy of continuous product improvement may change specifications without notice. As a result, Raymarine cannot accept liability for any differences between the product and the handbook.

## **Disposal of this product**

Disposal of this product should be in accordance with local regulations.

# **Technical support & contact information**

### www.raymarine.com

Visit the Customer Support area of our website for Frequently Asked Questions, servicing information, e-mail access to the Raymarine Technical Support Department and details of Raymarine agents, worldwide.

#### **United States**

### For accessories and parts contact:

- Your authorized Raymarine dealer.
- Raymarine Technical Services on: 1-800-539-5539 extension 2333. or (603)-881-5200.

#### Opening hours:

Monday through Friday 0815 - 1700, Eastern Standard or Eastern Daylight Savings Time.

#### To verify your requirements contact:

 1-800-539-5539 extension 2444. or (603)-881-5200.

#### For product repair & service contact:

- Your authorized Raymarine dealer.
- Return the unit to: Raymarine Product Repair Center 21 Manchester Street Merrimack, NH03054 - 4801 1-800-539-5539

## **Europe**

#### For technical support, service and accessories contact:

- Your authorized Raymarine dealer.
- Technical Support Raymarine UK Limited Anchorage Park Portsmouth **PO3 5TD England**

Tel: +44(0)23 9271 4713 Fax: +44(0)2392661228

# Help us to help you

When requesting service, please quote the following product information:

Equipment type
Model number

Serial number

#### **Raymarine UK Limited**

Quay Point, Northarbour Road, Portsmouth, Hampshire England PO6 3TD

Tel: + 44 (0)23 9269 3611 Fax: + 44 (0)23 9269 4642

www.raymarine.com

### **Raymarine Incorporated**

21 Manchester Street Merrimack, NH03054 - 4801 USA

Tel: 603-881-5200 Fax: 603-864-4756 www.raymarine.com

# **Raymarine**

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